

to be implanted in animals and humans, comprising a resilient woven tube which contains biologically absorbable oxidized cellulose.

5 Additionally, U.S. Patent No. 3,155,095 to Brown suggests hollow cylindrical anastomosis joints which are made of an absorbable material.

10 Further, U.S. Patent No. 3,272,204 to Artandi and Bechtol suggests collagen-made flexible tubes which can be externally reinforced with a plastic coil or plastic rings.

15 Other examples of at least partially biodegradable implants include U.S. Patent No. 3,463,158 to Schmitt and Polistina which suggests fiber-made tubular surgical devices which are at least partially made of absorbable polyglycolic acid (PGA).

U.S. Patent No. 3,620,218 to Schmitt and Polistina also suggests PGA-made surgical devices, such as tubes.

20 Still further examples of at least partially biodegradable implants include WO 84/03034 to Barrows which suggests longitudinally openable, porous, coarse-surfaced biodegradable tubes used as a remedy for the nerves.

25 Additionally, the publication Plast. Rec. Surg. 74 (1984) 329, Dabiel and Olding, suggests an absorbable anastomosis device which

mixtures of which can be used as raw material for devices of the present invention both as a matrix (or binder polymers) and/or reinforcement elements.

5 Table 1. Biodegradable polymers

1. Polyglycolide (PGA)

Copolymers of glycolide

- 10 2. Glycolide/lactide copolymers (PGA/PLA)
3. Glycolide/trimethylene carbonate copolymers (PGA/TMC)
Polylactides (PLA)

Stereoisomers and copolymers of PLA

- 15 4. Poly-L-lactide (PLLA)
5. Poly-D-lactide (PDLA)
6. Poly-DL-lactide (PDLLA)
7. L-lactide/DL-lactide copolymers
20 L-lactide/D-lactide copolymers

Copolymers of PLA

- 25 8. Lactide/tetramethylene glycolide copolymers
9. Lactide/trimethylene carbonate copolymers
10. Lactide/ δ -valerolactone copolymers
11. Lactide/ ϵ -caprolactone copolymers
12. Polydepsipeptides (glycine-DL-lactide copolymer)
13. PLA/ethylene oxide copolymers
30 14. Asymmetrically 3,6-substituted poly-1,4-dioxane-2,5-diones
15. Poly- β -hydroxybutyrate (PHBA)
16. PHBA/ β -hydroxyvalerate copolymers (PHBA/PHVA)
35 17. Poly- β -hydroxypropionate (PHPA)
18. Poly- β -dioxanone (PDS)
19. Poly- δ -valerolactone
20. Poly- ϵ -caprolactone
40 21. Methylmethacrylate-N-vinylpyrrolidone copolymers
22. Polyesteramides
23. Polyesters of oxalic acid
24. Polydihydropyranes
25. Polyalkyl-2-cyanoacrylates
45 26. Polyuretanes (PU)
27. Polyvinyl alcohol (PVA)
28. Polypeptides